

PATENT COOPERATION TREATY

PCT

NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Assistant Commissioner for Patents
United States Patent and Trademark
Office
Box PCT
Washington, D.C. 20231
ÉTATS-UNIS D'AMÉRIQUE

in its capacity as elected Office

| | |
|---|---|
| Date of mailing (day/month/year) 20 October 1999 (20.10.99) | Applicant's or agent's file reference PDC/AB/20401 |
| International application No. PCT/IB99/00650 | Priority date (day/month/year) 27 March 1998 (27.03.98) |
| International filing date (day/month/year) 29 March 1999 (29.03.99) | Applicant MERIC, Jérôme et al |

1. The designated Office is hereby notified of its election made:

☒ in the demand filed with the International Preliminary Examining Authority on:
22 September 1999 (22.09.99)

☐ in a notice effecting later election filed with the International Bureau on:

2. The election ☒ was
☐ was not

made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

| | |
|---|---|
| The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Facsimile No.: (41-22) 740.14.35 | Authorized officer <p style="text-align: center;">Lazar Joseph Panakal</p> Telephone No.: (41-22) 338.83.38 |
|---|---|

PCT

REC'D 10 MAR 2000

WIPO PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

| | | |
|--|--|--|
| Applicant's or agent's file reference PDC/AB/20401 | FOR FURTHER ACTION See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416) | |
| International application No. PCT/IB99/00650 | International filing date (day/month/year) 29/03/1999 | Priority date (day/month/year) 27/03/1998 |
| International Patent Classification (IPC) or national classification and IPC H04N5/00 | | |
| Applicant CANAL+ SOCIETE ANONYME et al. | | |

1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.



2. This REPORT consists of a total of 6 sheets, including this cover sheet.

- ☐ This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).

These annexes consist of a total of sheets.

3. This report contains indications relating to the following items:

- I ☒ Basis of the report
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- VI ☐ Certain documents cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

| | |
|---|--|
| Date of submission of the demand 22/09/1999 | Date of completion of this report 08.03.2000 |
| Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465 | Authorized officer de Dieuleveult, A Telephone No. +49 89 2399 8946  |

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/IB99/00650

I. Basis of the report

1. This report has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain amendments.*):

Description, pages:

1-19 as originally filed

Claims, No.:

1-15 as originally filed

Drawings, sheets:

1/6-6/6 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
- ☐ the claims, Nos.:
- ☐ the drawings, sheets:

3. ☐ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT**

International application No. PCT/IB99/00650

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | | | |
|-------------------------------|------|--------|------|
| Novelty (N) | Yes: | Claims | 1-15 |
| | No: | Claims | |
| Inventive step (IS) | Yes: | Claims | |
| | No: | Claims | 1-15 |
| Industrial applicability (IA) | Yes: | Claims | 1-15 |
| | No: | Claims | |

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB99/00650

V. Reasoned statement

1. Reference is made to the following documents:

- D1: US-A-5 442 390 (HOOPER ET AL) 15 August 1995
- D2: EP-A-0 653 888 (NEC CORPORATION) 17 May 1995
- D3: US-A-4 942 553 (DALRYMPLE ET AL) 17 July 1990
- D4: EP-A-0 501 699 (RCA THOMSON LICENSING CORP) 2 September 1992
- D5: US-A-5 642 498 (KUTNER) 24 June 1997

2. Claim 1:

Document D1 discloses (see Fig.12) a receiver/decoder (11) comprising:

one port (802) for receiving messages;

a memory (300);

one application module (803); and

control means (800) coupled to the port, the memory, and the application module operative in response to a message appearing at a port to write the message into the memory and to read the message from the memory out to an application module.

The claimed subject-matter thus only differs from the disclosure of D1 in that the memory includes a FIFO section, whereas the cache memory of D1 is managed as a circular buffer (see col. 15, lines 31-34).

However, replacing a circular buffer with a FIFO is a well known alternative, which is also suggested to the skilled person in D1 with reference to the server segment cache (see col. 12, lines 17-51).

Therefore, the subject-matter of claim 1 is considered to lack an inventive step with respect to the disclosure of D1.

3. Claims 2-15:

These dependent claims do not appear to comprise any additional features that would render their subject-matter inventive over the available prior art.

In particular:

- initiating the reading out of a message from the memory to said application module before receipt of the message is complete (claim 2) is known from D1 (see col. 15, lines 21-31);
- detecting impending overflow and/or underflow (claims 3-5) is contemplated in D1 (see col. 15, lines 37-56), but more precisely described in D2 (see col. 6, line

26 - col. 7, line 56) and in D3 (see the abstract);
- flushing a message from the memory (claim 6) is disclosed in D4 (see col. 22, lines 31-42);
- a buffer section comprising a plurality of buffers (claim 7) is shown in D4 (see col. 12, lines 38-49) and in D5 (see FIFOs 621-623 in Fig.6).
Therefore, these claims fail together with the independent claim for lack of inventive step.

VII. Certain defects

1. Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
3. Claims 14 and 15 contain a reference to the description. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.
4. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
5. On page 6, lines 10-11, the mention "the disclosures of which are herein incorporated by reference" should be deleted (see the PCT Guidelines PCT/GL/3 II, 4.17).
6. According to the requirements of Rule 11.13(l) reference signs not appearing in the description shall not appear in the drawings, and vice versa. This requirement is not met in view of the reference signs 4034 (see page 6, line 21 and page 7, line 26); 2028 (see page 9, line 21); and 58 (see Fig.5).

**INTERNATIONAL PRELIMINARY
EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/IB99/00650

7. The vague and imprecise statement in the description on page 19, lines 4-8 implies that the subject-matter for which protection is sought may be different to that defined by the claims and should therefore be removed (see the PCT Guidelines PCT/GL/3 III, 4.3a).

PATENT COOPERATION TREATY

From the:
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

PCT

To:

COZENS, P.
MATHYS & SQUIRE
100 Gray's Inn Road
London WC1X 8AL
GRANDE BRETAGNE

RECEIVED
MATHYS & SQUIRE

30 DEC 1999

REPLY DATE 27/3/00

Reply written opinion at Report of A 23/1/00

DIARY ENTERED

WRITTEN OPINION

(PCT Rule 66)

Date of mailing
(day/month/year)

23.12.1999

Applicant's or agent's file reference

PDC/AB/20401

REPLY DUE

within 3 month(s)
from the above date of mailing

International application No.

PCT/IB99/00650

International filing date (day/month/year)

29/03/1999

Priority date (day/month/year)

27/03/1998

International Patent Classification (IPC) or both national classification and IPC

H04N5/00

Applicant

CANAL+ SOCIETE ANONYME et al.

1. This written opinion is the first drawn up by this International Preliminary Examining Authority.

2. This opinion contains indications relating to the following items:

- I ☒ Basis of the opinion
- II ☐ Priority
- III ☐ Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- IV ☐ Lack of unity of invention
- V ☒ Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability: citations and explanations supporting such statement
- VI ☐ Certain document cited
- VII ☒ Certain defects in the international application
- VIII ☐ Certain observations on the international application

3. The applicant is hereby invited to reply to this opinion.

When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).

How? By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.

Also: For an additional opportunity to submit amendments, see Rule 66.4.
For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis.
For an informal communication with the examiner, see Rule 66.6.

If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.

4. The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 27/07/2000.

Name and mailing address of the international preliminary examining authority:



European Patent Office
D-80298 Munich
Tel. +49 89 2399 - 0 Tx: 523656 epmu d
Fax: +49 89 2399 - 4465

Authorized officer / Examiner

de Dieuleveult, A

Formalities officer (incl. extension of time limits)

Schaller, W

Telephone No. +49 89 2399 4409



I. Basis of the opinion

1. This opinion has been drawn on the basis of (*substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".*).

Description, pages:

1-19 as originally filed

Claims, No.:

1-15 as originally filed

Drawings, sheets:

1/6-6/6 as originally filed

2. The amendments have resulted in the cancellation of:

- ☐ the description, pages:
☐ the claims, Nos.:
☐ the drawings, sheets:

3. This opinion has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):

4. Additional observations, if necessary:

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

| | |
|-------------------------------|-------------|
| Novelty (N) | Claims |
| Inventive step (IS) | Claims 1-15 |
| Industrial applicability (IA) | Claims |

2. Citations and explanations

see separate sheet

VII. Certain defects in the international application

The following defects in the form or contents of the international application have been noted:

see separate sheet

V. Reasoned statement

1. Reference is made to the following documents:

- D1: US-A-5 442 390 (HOOPER ET AL) 15 August 1995
- D2: EP-A-0 653 888 (NEC CORPORATION) 17 May 1995
- D3: US-A-4 942 553 (DALRYMPLE ET AL) 17 July 1990
- D4: EP-A-0 501 699 (RCA THOMSON LICENSING CORP) 2 September 1992
- D5: US-A-5 642 498 (KUTNER) 24 June 1997

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a memory (300);

one application module (803); and

control means (800) coupled to the port, the memory, and the application module operative in response to a message appearing at a port to write the message into the memory and to read the message from the memory out to an application module.

The claimed subject-matter thus only differs from the disclosure of D1 in that the memory includes a FIFO section, whereas the cache memory of D1 is managed as a circular buffer (see col. 15, lines 31-34).

However, replacing a circular buffer with a FIFO is a well known alternative, which is also suggested to the skilled person in D1 with reference to the server segment cache (see col. 12, lines 17-51).

Therefore, the subject-matter of claim 1 is considered to lack an inventive step with respect to the disclosure of D1.

3. Claims 2-15:

These dependent claims do not appear to comprise any additional features that would render their subject-matter inventive over the available prior art.

In particular:

- initiating the reading out of a message from the memory to said application module before receipt of the message is complete (claim 2) is known from D1 (see col. 15, lines 21-31);
- detecting impending overflow and/or underflow (claims 3-5) is contemplated in D1 (see col. 15, lines 37-56), but more precisely described in D2 (see col. 6, line

26 - col. 7, line 56) and in D3 (see the abstract);

- flushing a message from the memory (claim 6) is disclosed in D4 (see col. 22, lines 31-42);

- a buffer section comprising a plurality of buffers (claim 7) is shown in D4 (see col. 12, lines 38-49) and in D5 (see FIFOs 621-623 in Fig.6).

Therefore, these claims fail together with the independent claim for lack of inventive step.

VII. Certain defects

1. Independent claim 1 is not in the two-part form in accordance with Rule 6.3(b) PCT, which in the present case would be appropriate, with those features known in combination from the prior art (document D1) being placed in the preamble (Rule 6.3(b)(i) PCT) and with the remaining features being included in the characterising part (Rule 6.3(b)(ii) PCT).
This claim should therefore be redrafted accordingly. If, however, the applicant is of the opinion that the two-part form would be inappropriate, then reasons therefor should be provided in the letter of reply. In addition, the applicant should ensure that it is clear from the description which features of the subject-matter of claim 1 are already known in combination from the document D1 (see the PCT Guidelines, III-2.3a).
2. The features of the claims are not provided with reference signs placed in parentheses (Rule 6.2(b) PCT).
3. Claims 14 and 15 contain a reference to the description. According to Rule 6.2(a) PCT, claims should not contain such references except where absolutely necessary, which is not the case here.
4. Contrary to the requirements of Rule 5.1(a)(ii) PCT, the relevant background art disclosed in the document D1 is not mentioned in the description, nor is this document identified therein.
5. On page 6, lines 10-11, the mention "the disclosures of which are herein incorporated by reference" should be deleted (see the PCT Guidelines PCT/GL/3 II, 4.17).

6. According to the requirements of Rule 11.13(I) reference signs not appearing in the description shall not appear in the drawings, and vice versa. This requirement is not met in view of the reference signs 4034 (see page 6, line 21 and page 7, line 26); 2028 (see page 9, line 21); and 58 (see Fig.5).
7. The vague and imprecise statement in the description on page 19, lines 4-8 implies that the subject-matter for which protection is sought may be different to that defined by the claims and should therefore be removed (see the PCT Guidelines PCT/GL/3 III, 4.3a).



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Europäisches
Patentamt

Generaldirektion 2

European
Patent Office

Directorate General 2

Office européen
des brevets

Direction Générale 2

Correspondence with the EPO on PCT Chapter II demands

In order to ensure that your PCT Chapter II demand is dealt with as promptly as possible you are requested to use the enclosed self-adhesive labels with any correspondence relating to the demand sent to the Munich Office.

One of these labels should be affixed to a prominent place in the upper part of the letter or form etc. which you are filing.

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

| | | |
|--|---|--|
| Applicant's or agent's file reference PDC/AB/20401 | <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> FOR FURTHER ACTION </div> <div style="font-size: small;"> see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below. </div> </div> | |
| International application No. PCT/IB 99/00650 | International filing date (day/month/year) 29/03/1999 | (Earliest) Priority Date (day/month/year) 27/03/1998 |
| Applicant CANAL+ SOCIETE ANONYME et al. | | |

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 3 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

a. With regard to the **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☐ furnished subsequently to this Authority in written form.

☐ furnished subsequently to this Authority in computer readable form.

☐ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☐ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

3
☐ None of the figures.

PATENT COOPERATION TREATY

From the
INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

| | |
|--|--|
| <p>To:</p> <p>COZENS, P. MATHYS & SQUIRE 100 Gray's Inn Road London WC1X 8AL GRANDE BRETAGNE</p> | <div style="border: 2px solid black; padding: 5px; text-align: center;"> <p>RECEIVED</p> <p>MATHYS & SQUIRE</p> <p>10 MAR 2000</p> <p>REPLY DATE 10/4/2000</p> <p>ROD I PER</p> <p>DIARY ENTERED</p> </div> |
|--|--|

PCT

NOTIFICATION OF TRANSMITTAL OF
THE INTERNATIONAL PRELIMINARY
EXAMINATION REPORT
(PCT Rule 71.1)

| | | |
|--|---|---|
| Applicant's or agent's file reference PDC/AB/20401 | | Date of mailing (day/month/year) 08.03.2000 |
| IMPORTANT NOTIFICATION | | |
| International application No. PCT/IB99/00650 | International filing date (day/month/year) 29/03/1999 | Priority date (day/month/year) 27/03/1998 |
| Applicant CANAL+ SOCIETE ANONYME et al. | | |

1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

| | |
|---|--|
| Name and mailing address of the IPEA/ <div style="display: flex; align-items: center;"> <div> <p>European Patent Office</p> <p>D-80298 Munich</p> <p>Tel. +49 89 2399 - 0 Tx: 523656 epmu d</p> <p>Fax: +49 89 2399 - 4465</p> </div> </div> | Authorized officer <p>Stannartz, B</p> <p>Tel. +49 89 2399-8242</p> |
|---|--|



INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 99/00650

A. CLASSIFICATION OF SUBJECT MATTER
IPC 6 H04N5/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 6 H04N G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

| Category * | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
|------------|--|---------------------------|
| X Y | US 5 442 390 A (HOOPER DONALD F ET AL) 15 August 1995 (1995-08-15) abstract column 14, line 4 - column 16, line 6 claim 1 figures 1,12 --- | 1,2, 12-15 3-6,8-10 |
| X A | US 5 642 498 A (KUTNER MICHAEL A) 24 June 1997 (1997-06-24) column 3, line 59 - column 6, line 67 figure 6 --- | 1,7,8 2-6,9-15 |
| X | US 5 720 037 A (OZDEN BANU ET AL) 17 February 1998 (1998-02-17) column 7, line 43 - column 7, line 57 figure 1 --- -/-- | 1,13 |

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- "&" document member of the same patent family

Date of the actual completion of the international search

22 July 1999

Date of mailing of the international search report

29/07/1999

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Hampson, F

INTERNATIONAL SEARCH REPORT

International Application No

PCT/IB 99/00650

| C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT | | |
|--|--|-----------------------|
| Category ° | Citation of document, with indication, where appropriate, of the relevant passages | Relevant to claim No. |
| Y | EP 0 653 888 A (NIPPON ELECTRIC CO) 17 May 1995 (1995-05-17) | 3-5 |
| A | abstract column 6, line 26 - column 7, line 56 figure 2 --- | 1 |
| Y | EP 0 501 699 A (RCA THOMSON LICENSING CORP) 2 September 1992 (1992-09-02) | 6,8-10 |
| A | column 12, line 38 - column 12, line 49 column 22, line 31 - column 22, line 42 figures 5,9 --- | 1,11 |
| A | EP 0 727 909 A (SONY CORP) 21 August 1996 (1996-08-21) abstract column 3, line 49 - column 4, line 28 figures 2,3 --- | 1-15 |
| A | US 4 942 553 A (DALRYMPLE MONTE J ET AL) 17 July 1990 (1990-07-17) abstract figure 3 --- | 1-5 |
| A | US 4 882 710 A (HASHIMOTO MASASHI ET AL) 21 November 1989 (1989-11-21) abstract --- | 1,12 |
| A | EP 0 726 675 A (ITALTEL A STET AND SIEMENS COM) 14 August 1996 (1996-08-14) ----- | |

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB 99/00650

| Patent document cited in search report | | Publication date | Patent family member(s) | Publication date |
|---|---|---------------------|--|--|
| US 5442390 | A | 15-08-1995 | CA 2127347 A DE 69415880 D EP 0633694 A | 08-01-1995 25-02-1999 11-01-1995 |
| US 5642498 | A | 24-06-1997 | JP 7322165 A | 08-12-1995 |
| US 5720037 | A | 17-02-1998 | US 5754773 A | 19-05-1998 |
| EP 0653888 | A | 17-05-1995 | JP 2658832 B JP 7135659 A DE 69418824 D US 5721590 A US 5847765 A | 30-09-1997 23-05-1995 08-07-1999 24-02-1998 08-12-1998 |
| EP 0501699 | A | 02-09-1992 | CN 1065568 A,B DE 69225164 D DE 69225164 T ES 2114913 T JP 5083685 A MX 9200828 A US 5168356 A | 21-10-1992 28-05-1998 17-09-1998 16-06-1998 02-04-1993 01-08-1992 01-12-1992 |
| EP 0727909 | A | 21-08-1996 | JP 8214040 A US 5905882 A | 20-08-1996 18-05-1999 |
| US 4942553 | A | 17-07-1990 | NONE | |
| US 4882710 | A | 21-11-1989 | JP 2115578 C JP 8003956 B JP 63074200 A | 06-12-1996 17-01-1996 04-04-1988 |
| EP 0726675 | A | 14-08-1996 | IT MI950226 A | 09-08-1996 |

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FOR
UNITED STATES LETTERS PATENT

TITLE: MEMORY MANAGEMENT IN A RECEIVER/DECODER

APPLICANTS: Jérôme MERIC and Christophe DECLERCK

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